Monthly Divisional Report

New Jersey State Highway Department

August 1960

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Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 1960

Division: Accounting and Administrative Services

Bureau: Administration

CONTRACTS

Bids received on six (6) projects and necessary reports and certificates of award prepared. Six (6) contracts awarded; contracts prepared and forwarded for execution. Execution of eight (8) contracts completed. Five (5) projects advertised for bids. One hundred (100) sets of plans and supplementary specifications distributed.

SCHEDULES OF APPROVALS

Four (4) Schedules prepared listing a total of three hundred thirty-seven (337) items; which by a combination of items where possible represents action on four hundred sixty-eight (468) individual items. Official copies of Schedules signed by the Commissioner, placed in Minute Book and indexed. Schedules of Approvals distributed in accordance with regulations and necessary letters concerning official actions written.

GENERAL

28 Standard Specifications issued
1 Deposit made for transmittal of income
16 Traffic Regulations certified to Division of Motor Vehicles
72 Property Agreements attested and processed
17 Agreements attested and processed
53 Municipal Aid contracts, applications, agreements, transfers, etc. certified
13 General Releases executed
39 Motor Vehicle license
4 Deeds of Conveyance acknowledged and processed
7 Utility Orders attested and processed
1 Permit Bond
6 Highway Lighting Agreements
3 Lease Agreements

General correspondence, filing and answering telephone inquiries.

Receiving and reading bids at four lettings.

Kenneth D Rice

Kenneth D. Rice
Secretary

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Form 6AD-39

MONTHLY DIVISIONAL REPORT Month of August 1950

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Bureau: Administration

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Kenneth D. Rice
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Form #AD-39

Reports - Monthly

MONTHLY DIVISIONAL REPORT Month of **August** 19 60

Division: **Accounting & Administrative Services**

Bureau: **Office of Comptroller**
Bureau of Auditing & Accounting

The Comptroller, together with Mr. J. Malloy, Federal Aid Engineer, attended a conference in Albany, N. Y., together with other Comptrollers, Administration Managers and Bureau of Public Roads Managers from Federal Region #1, consisting of Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island and Vermont.

The purpose of the meeting was "The Need and Purpose of Accrual Accounting" insofar as reporting to the Bureau of Public Roads on work accomplished and not yet billed; preliminary engineer, contract work performed, right of way property agreements, public Utility work, etc.

The Comptroller attended Task Force and other intra-departmental committee meetings.

In the Bureau of Auditing & Accounting, approximately 3060 invoices were passed for payment for materials, supplies, estimates to contractors, right of way invoices and utility bills.

Warrants were drawn for 53 County and Municipal Aid payments amounting to $2,561,132.99. Funds were certified on Contracts, Price Agreements, Transfer forms, etc.

Cyrus Card
Comptroller

SECT. 2.08

Form 4AD-39

MONTHLY DIVISIONAL REPORT

Month of August 19 60

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Cyrus Card
Comptroller

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Accounting & Administrative Services

Bureau: Office Services

OFFICE SERVICES

Items of government surplus, such as disks and chairs, were distributed to the Trenton garage and various field offices. This furniture was given us by the Federal Government without cost and it will save us money on the purchase of new furniture.

Survey was made of office furniture and machines requested in both the Right of Way and Construction Divisions in the Metuchen office. Only items absolutely necessary were approved for the 1960-61 budget.

During the past month the large basement room, which formally housed Auditing and Accounting records, was cleared of all I.B.M. cards and obsolete records and arrangements have been made to refurbish this room for use as a projection room and model exhibiting room.

Due to relocating various bureaus, it has been necessary to make a space survey throughout the building. I would like to go on record as stating that we are fast coming to the saturation point where there is not any space available.

FILES AND RECORDS

During the month the "basement clearing" project was completed and two truck loads of material, consisting of hundreds of thousands of records were removed to the records building. Since this material was only tied in bundles, in odd shaped and often broken cartons or else just loose it will have to be sorted, indexed and placed in proper record storage boxes. During this process any material on a Retention Schedule as approved by the States Records Committee will be culled and sent to the incinerator for burning. This project must needs await the advent of cooler weather and the availability of personnel to do this quantity of increased work.

MAIL SECTION

During the month of August we had a great deal of heavy, bulky mail, namely, large rolls of plans going to the contractors, sacks of map requests that we take care of in our spare time and hundreds of books mailed out by the Association of Highway Officials once a year.

Map requests have diminished somewhat since the papers corrected the address to which people write for them, though we still get demands daily.

Over $500.00 dollars was spent in postage on prepaid envelopes for the Bureau of Hourly Payrolls.

The Bureau of Public Relations kept us busy mailing out news releases. We are quite elated over the fact that we are going to get new tables in the Mail Room. It will be wonderful as we are often handicapped by the lack of working surfaces when they bring in a huge volume of work.

Form AD-39

MONTHLY DIVISIONAL REPORT

Month of August 19 60

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Bureau: Office Services

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Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Accounting & Administrative Services

Bureau: Office Services

DUPLICATING SECTION

Most of our work consisted of the routine assignments including mimeographing, offset, binding, collating, forms, etc. Several new forms were composed and completed. Overtime work was necessary to complete specifications for Construction Division.

All equipment is operating at peak performances and production is completed as rapidly as possible.

Clifford Wear
Supervisor, Purchase and Stores

Form 6AD-39

MONTHLY DIVISIONAL REPORT

Month of August 19 30.

Division: Accounting & Administrative Services
Bureau: Office Services

DUPLICATING SECTION

Most of our work consisted of the routine assignments including mimeographing, offset, binding, collating, forms, etc. Several new forms were composed and completed. Overtime work was necessary to complete specifications for Conservation Division.

All equipment is operating at peak performances and production is completed as rapidly as possible.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of AUGUST, 19 60

Division: Accounting and Administrative Services

Bureau: Purchase and Stores

The activities in the Purchase and Stores Bureau during the month of August, 1960, were mostly of a routine nature.

Check in the amount of $437.32 from Al Kay Tire Sales, Philadelphia, Pennsylvania, covering the sale of 9.2125 tons of Scrap Tires at $47.47-per net ton as a result of high bid of June 9, 1960, was forwarded to Mr. Cyrus Card, Comptroller.

Application for the purchase of 60,000 lbs. of Aluminum for Sign work in the Maintenance Bureau was forwarded to the Division of Purchase and Property.

Interviewed 30 salesmen representing various concerns during the month and attended 10 meetings regarding departmental matters and purchases.

Clifford Wear

Clifford Wear
Supervisor, Purchase and Stores

Supervisor, Furnaces and Stores

Officer-in-Charge

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Bridge

Bureau: Bridges Under Construction Sheet #1 of 2

		% OF COMPLETION
Rt. US1: Sec. 6A	U.P. Milltown Road, New Brunswick Twp., Middlesex Co.	41
Rt.US1&9: Sec. 1&2	Ramp Revisions, Jersey City, Hudson County	92
Rt. 3: Sec. 4A	Repair to Header at Lincoln Tunnel Approach, North Bergen Twp., Hudson County	0
Rt. US9: Sec. 2	Cape May Canal Bridge, Lower Twp., Cape May County	100
Rt. 10: Sec. 2A	U.P. at Salem Street, Randolph Twp., Morris County	100
Rt. 15: Sec. 1	Burnt Meadow Brook Bridge, Rockaway & Wharton, Morris Co.	99
Rt. 17: Sec. 3	U.P. at Century Road, Paramus, Bergen County	100
Rt. 18: Sec. 2	2 Overpasses, 2 Walls, New Brunswick, Middlesex Co.	99
Sec. 5	O.P. at Rt. US9, Madison Twp., Middlesex Co.	96
Rt. 20: Sec. 4A	U.P. at Ramp B, Paterson, Passaic County	26
Rt. 21: Sec. 1C	14 Structures, Nutley & Clifton, Essex-Passaic Counties	60
Rt. US22, Sec. 13A 4, Sec. 2A US46, Sec. 15A	4 Pedestrian Overpasses, 1 Stairs, Boros of Mountainside, Paramus, Hasbrouck Heights, Union & Bergen Counties	93
Rt. 28: Sec.1A&7A	LVRR Bridge at Westfield Ave., Roselle Park, Union Co.	8
Rt.US30: Sec.14A	2 Pedestrian Overpasses at 16th St. & Rodman Ave., Camden & Pennsauken Twps., Camden County	29
Rt. 35: Sec. 10A	Matawan Creek Bridge Deck, Matawan Twp., Monmouth County	100
Sec. 12B	LVRR Bridges (Main & Spur Lines), City of Perth Amboy and Woodbridge Twp., Middlesex County	75
Sec. 12C	Victory Bridge (Fender Repair), Perth Amboy, Middlesex Co.	100

	Parsons, Hasbrouck Heights & Union C. Morgan Counties	93
Mt. 25: Sec.12A/2A	IV2H Bridge at Westfield Ave., Roselle Park, Union Co.	8
	2 Pedestrian Overpasses at 10th St. & Bodman Ave., Camden & Pennsauken Twps., Camden County	89
	Redburn Twp., Monmouth County	100
	U.S. 1 Bypass, New Brunswick Twp., Middlesex Co.	42
Mt. 26: Sec. 12	Jamesburg-Monroe, Monroe Twp., Middlesex Co.	60
Sec. 12A	U.S. 46 at Hamp B, Peterson, Passaic County	24
Mt. 27: Sec. 2	2 Overpasses, 2 Rails, New Brunswick, Middlesex Co.	99
	U.S. 46 at Rt. 509, Hanson Twp., Middlesex Co.	95
Mt. 28: Sec. 2	Burnt Meadow Brook Bridge, Woodbury & Harrison, Gloucester Co.	99
Sec. 2A	U.S. 46 at Denbury Road, Paramus, Bergen County	100
Sec. 2	Deepwater Terminal Bridge, Lower Twp., Cape May County	100
Sec. 2A	U.S. 46 at Salem Street, Pennsauken Twp., Morris County	100
Sec. 2	Deepwater to Thorofare at Delaware Ground Approach, North Cumberland Twp., Hunterdon County	0
	U.S. Hillbrook Road, New Brunswick Twp., Middlesex Co.	42

MONTHLY DIVISIONAL REPORT — Month of August, 1960

Division: Bridge

Bureau: Bridges Under Construction — Sheet #2 of 2

		% OF COMPLETION
Rt. 78:		
Sec. 2E	5 Structures, Bloomsbury, Beth.&Union Twps., Hunterdon Co.	97
Sec. 2F	2 O.P. at CRR & LVRR, Bloomsbury & Beth.Twps., Hunterdon Co.	96
Rt. 80:		
Sec. 2E	10 Bridges, Netcong & Roxbury, Morris County	84
Sec. 4A	Bridge over Rt. 20, Passaic River & Slaughterdam Road, Paterson & East Paterson, Passaic-Bergen Counties.	93
Rt. 82:		
Sec. 1A	LVRR Bridge at Morris Ave., Union Twp., Union County	47
Rt. 95: Sec. 1D	2 O.P. at Broad Ave. & Grand Ave., Flat Rock Brook Culvert & Flume, City of Englewood & Leonia Twps., Bergen County	4
Rts.129 & 29:		
Sec.1A&15A:	8 Structures, Ewing & Hopewell Twps., Mercer County	81
Rt.US130: Sec.7A&8B	Three Bridges, Pennsauken & Cinnaminson Twps., Camden & Burlington Counties.	68
Rt. 169:		
Sec. 1	Three Bridges, Bayonne & Jersey City, Hudson County	90
Rt. 202: Sec. 8A	6 Bridges, Raritan, Readington & Branchburg Twps., Hunterdon & Somerset Counties.	10
Rt. 208:		
2A,1A,3B	4 U.P., 1 Culvert, Franklin & Hawthorne Boros, Wyckoff Twp., Bergen & Passaic Counties.	82
Sec.3A	Pedestrian O.P. at Ethel Ave., Boros of Hawthorne, Glen Rock, Fair Lawn, Passaic & Bergen Counties.	95
Rt. 287:		
Sec. 1B	9 Bridges, Bridgewater Twp., Somerset County	78
Sec.1C&2B	7 Bridges, Franklin & Piscataway Twps., Somerset-MiddlesexCo.	92
Rt. 295:		
Sec. 1C	9 Structures, Deptford & Westville, Camden-Gloucester Cos.	94
Sec. 1D	4 Structures, Westville Boro, Camden-Gloucester Counties	86
Redecking 4 Bridges:		
Rt. 36, Sec. 3A	Shrewsbury R.Br., Highland Boro, Monmouth Co.	14
Rt. 47, Sec. 8A&9A	Manantico Cr.Br., Millville, Cumberland Co.	
Rt. 49, Sec.3A& 4A	Alloways Cr.Br., Quinton Twp., Salem Co.	
Rt.130, Sec. 1A&6A	Big Timber Cr.Br., Brooklawn-Westville Twps., Camden & Gloucester Cos.	

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Bridge

Bureau: Design Section Sheet #1 of #3

Rt.US1 Sec.	Underpass at Woodbridge Ave.: Plans being prepared.
Rt. 3 Sec.	Hackensack River Bridge (Redecking): Plans being prepared.
Rt. 3 Sec. 2	Hackensack River Bridge: Plans being prepared by Hardesty & Hanover.
Rt. 4 Sec. 4	Pedestrian Bridge at Grand Ave.: Plans being prepared.
Rt. 10 Sec. 7	Canoe Brook Bridge: Advertised for bids to be received 9/22/60.
Rt. 13 Sec. 1	Lovelandtown Bridge Extension: Plans being prepared.
Rt. 17 Sec. 7	Underpass at East Ridgewood Ave.: Plans being prepared.
Rt. 18 Sec.	S.B. Bridge over Raritan River R.R.: Plans being prepared.
Rt.US22 Sec.	Liberty Ave. Viaduct Widening: Plans being prepared.
Rt.US22 Sec.	Underpass at Relocated Mountain Ave.: Plans being prepared.
Rt. 28 Sec.	Bridges over Green Brook and Bound Brook: Plans being prepared.
Rt.US40 Sec. 2A	Game Creek Bridge: Bids received 8/4/60. Awarded to Gaskill Construction Co., low bidder, 8/19/60.
Rt. 46 Sec. 3A	Pedestrian Overpass at Washington Terrace: Plans being prepared.
Rt. 50 Sec.	Cedar Swamp Creek: Plans being prepared.
Rt. 54 1A,2A,3A	Culvert at Station 616+88: Plans being prepared.
Rt. 78 Sec. 2G	Six Bridges: Reviewing plans prepared by Parsons, Brinckerhoff, Quade & Douglas.
Rt. 78 Sec. 4	14 Bridges: Reviewing plans prepared by DeLeuw, Cather & Brill.

Rt. 80: Sec. 4 — Bergen-Passaic Expressway:
Reviewing plans prepared by Fay, Spofford & Thorndike.

Rt. 80: Sec. 5 — Bergen-Passaic Expressway:
Reviewing plans prepared by Parsons, Brinckerhoff, Quade & Douglas.

Rt. 80: Sec. 2J — Four Bridges:
Bids received 7/21/60. Awarded to Franklin Contracting Co., low bidder, 8/13/60.

Rt. 82 Sec. 1A — Culvert:
Extra work order to Peter W. Kero, Inc.

Rt. 95-80 Interch. — Interchange - 6 Structures:
Plans being prepared by Parsons, Brinckerhoff, Quade & Douglas.

Rt. 95 Sec. 1 — Bergen-Passaic Expressway:
Reviewing plans prepared by Parsons, Brinckerhoff, Quade & Douglas.

Rt. 95 Sec. 1E — Bergen-Passaic Expressway - U. P. at Edgewood Ave.:
PS&E sent to Bureau of Public Roads 8/25/60.

Rt. 130 7B&10B — 3 Culvert Extensions:
Plans being prepared by John Reutter & Associates.

Rt. 130 Sec. — U.P. at Federal Street:
Plans being prepared.

Rt. 168 Sec. — Culvert at Sta. 112+50, Black Horse Pike:
Plans complete except for quantities.

Rt. 206 Sec. — Rt. 206 over Rt. 130 S.B.:
Plans being prepared.

Rt. 206 Sec. — Rt. 206 S.B. over Rt. 130 N.B.:
Plans being prepared.

Rt. 208 Sec. 2C — Overpass at NYS&WRR:
Plans and specs. prepared. Submitted to BPR for approval.

Rt. 208 Sec. 4 — Six Structures:
Reviewing plans prepared by Goodkind & O'Dea.

Rt. 287 Sec. 2C — 5 Structures East of River Road Interchange to Stelton Road:
Advertised for bids to be received 9/8/60.

Rt. 287 Sec. 3A&3B — 14 Structures (East of Stelton Road):
Reviewing plans prepared by Madigan-Hyland.

Rt. 287 Sec. 4 — 5 Structures:
Reviewing plans prepared by Goodkind & O'Dea.

Rt. 287 Sec. 4 — 4 Structures:
Reviewing plans prepared by Madigan-Hyland.

MONTHLY DIVISIONAL REPORT — Month of August, 1960

Division: Bridge

Bureau: Design Section — Sheet #3 of #3

Rt. 295 Sec. 2E — 7 Structures: Reviewing plans prepared by Sherman, Taylor & Sleeper.

Rt. 295 Sec. 2F — 5 Structures: Reviewing plans prepared by Sherman, Taylor & Sleeper.

Rt.US322 Sec. 3A — Widening 3 Bridges: Bids received 8/11/60. South Jersey Construction Co., low bidder.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of September 19 60

Division: Maintenance and Operations

Bureau: Electrical Operations

OPERATION

32 movable bridges, full time; 6 on 24 hour notice.

MAINTENANCE

1,010 traffic signals, 5 lane control systems, 886 illuminated signs, 38 movable bridges, 237 mobile radio units, 10 base stations.
Replacement, equipment knocked down, 30 locations.

CONSTRUCTION BY BUREAU FORCES

11 new traffic signals; 7 traffic signal revisions.

CONSTRUCTION BY CONTRACT

Highway lighting, Route I-295, 42% complete
Traffic signals and lighting, Routes US130 and 38, 65% complete
Underground ducts, Route US1 & 9, North Avenue - Elizabeth City Line, 40% complete.

DESIGN BY BUREAU FORCES

Highway lighting, Scudders Falls Bridge Approach, 10% complete
Highway lighting, Route I-295, Copley Road to Route I-80S, 100% complete
Highway lighting, Route I-295, Copley Road - Route US130, 30% complete
Traffic signals, 9, 100% complete
Six field surveys and drawings for Bureau of Planning and Traffic.

DESIGN BY CONSULTANTS

Highway lighting, Route I-287, River Road - Route US130, 35% complete
Highway lighting, Route I-80 and I-95, Parkway to George Washington Bridge, 42% complete
Highway lighting, Route I-80, West of Parkway, 66% complete.

INSPECTION

26 PUO relocations; 6 FAS projects; electrical work in 34 road construction projects; 3 prime electrical contracts.

NEGOTIATIONS

10 traffic signals under negotiation, 6 completed. 12 field inspections and contacts with local officials, 3 on lighting, 9 on signals.

CLAIMS

Payments received $5,814.78
Property damage claims set up 20
Traffic signal cost-sharing claims set up 11
Work orders issued resulting in claims 26

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of **August** 19 **60**

Division: **Maintenance and Operations**

Bureau: **Maintenance**

BRIDGE SECTION

Completed work on extension of culvert on Route 45 at Westville, installation of bumper blocks on Cooper River Bridge on Route 130 at Camden, rebuilding of culvert on D. and R. Canal at Westons Mills and repairs to catwalk at Shrewsbury River Bridge on Route 36 at Highlands and deck plates on Cheesequake Creek Bridge on Route 35 at Morgan. Contract work completed on redecking of bridges over Matawan Creek on Route 35 and Big Timber Creek on Route 130 and repairs to the fender system at the Victory Bridge on Route 35. Roseland Painting and Decorating Company completed all work under its contract for painting the Edison Bridge on Route 9 and J. I. Hass Company, Inc. approximately 90% of the work under its contract for painting the remaining portion of the Pulaski Skyway. Department forces completed the painting of the bridges over Big Timber Creek on Route 47 at Westville and Woodbury Creek on Route 45 and the pipe railing on the bridge over Branch of Big Timber Creek on Route 47 at Westville.

INSPECTION OF COMPLETED CONSTRUCTION PROJECTS

Inspected three completed construction projects (Route 4-Parkway Ramp at Chestnut Street; Route 29, Raven Rock to Byram, and Demolition of Buildings on Former Burnett Estate, Palisades Interstate Park) preliminary to acceptance by the Bureau and found all to be in satisfactory condition for acceptance.

LANDSCAPE SECTION

Removed 27 large trees throughout the State and performed emergency tree trimming and removal work necessitated by storm damage. Dapero Tree Experts, Inc. completed third and final herbicide chemical spray treatment under its two contracts ("North" and "South").

CONSTRUCTION AND MAJOR MAINTENANCE PROJECTS

Completed miscellaneous construction projects totaling approximately $22,500.00, including curb revisions at Route 9 and Lacey Road, island revisions at Bordentown Avenue in Sayreville and at Routes 23 and 46 in Singac, intersection revision at Route 42 and Rosemont Avenue, and drainage improvements at Old Bridge, Big Timber Creek and on Route 42 in Camden County, and institutional construction projects totaling approximately $18,500.00, including parking areas at Sea Girt National Guard Training Center and Vineland State School, driveway entrances at Woodbury Armory, and curbing at Hopatcong State Park. Completed resurfacing on three sections of highway in District 1, four sections in District 2, three sections in District 3, three sections in District 5, and two sections in District 6. Started experimental resealing of joints with hot poured rubber-asphalt sealer on Route 46, west of Route 23. This is the same type of sealer used in new construction since 1953.

Division: Maintenance and Operations

Section: Maintenance

Month of August 19 60

Upon on house 47 at Weatvilla.

Division: Maintenance and Operations

Bureau: Maintenance

PERMITS SECTION

Total of 278 applications processed, including 172 for road openings, 31 for erection of poles, 60 for entrances and 15 for miscellaneous projects. Analysis of the results of encroachment survey completed last month on Route 69 indicates that perhaps 25 or 30 per cent of the encroachments would require legal assistance in order to obtain a clear right of way. This problem has been presented to Deputy Attorney General McCormack by memorandum and we are awaiting his reply.

MAINTENANCE BUILDINGS AND STRUCTURES

Construction completed, except for punch list items, on Maintenance Building on Route 130 at Edgewater Park; construction continued on new Maintenance Building on Route 130 at Bridgeport, electrical plans completed and materials ordered; work continued on re-roofing Laboratory Building #18 and on addition to Maintenance Building on Route 69 at Flemington; topographical survey made for new Department Garage and Service Building on Route 70 in Delaware Township; work completed on new addition to Hammonton Garage to house boiler room and gas station; completed design and ordering of materials for new Maintenance Building on Route 9 at Manahawkin; design work started on installation of sprinkler system for Buildings Nos. 17 and 34 at Fernwood; study and estimate made on alternates for providing added security for Laboratory Building #18; advertised for bids on construction of new building to house emergency generators; installation work started on fencing six maintenance yards; started reclamation of unused materials at Troy Village property acquisition.

SIGNS AND LINES SECTION

Erected new type green directionary signs at Pole Tavern Circle on Route 77 and on Route 206, Trenton to Princeton; all types of signs at Route 10 and Salem Road in Dover, Route 35 at Amboy Avenue in Perth Amboy, jughandles on Route 38 at Marter Avenue, Mount Laurel Road, Nixon Drive and Lenola Road in Moorestown, and on Route 130 at Beverly-Rancocas Road in Beverly, Riverton-Moorestown Road in Riverton, and at the Fairview Avenue Control in Bridgeboro, and Race Track signs on various routes for Freehold and Atlantic City Race Tracks. Removed detour signs on Route 35 at Matawan Creek Bridge and Monmouth Park Race Track signs from various routes. Speakers' stand, chairs and decorations erected for dedication of Daniel Bray Highway on Route 29 at Raven Rock. Erected Service Connection Notices and passed out Notices Prior to Reconstruction in connection with construction project on Route 322, Eighth Street to Weymouth Road, Folsom. Lombardi Striping Company completed approximately 75% of work under Contract No. 1 for painting white traffic lines.

Division: Maintenance and Operations

Bureau: Maintenance

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Construction completed, except for punch list items, on Maintenance Building on Route 130 at Riverwater Park; construction continued on new Maintenance Building on Route 130 at Bridgeport, electrical plans completed and materials ordered; work continued on re-roofing Laboratory Building #18 and on addition to Maintenance Building on Route 69 at Pilesville; topographical survey made for new Department Garage and Service Building on Route 70 in Delaware Township; work completed on new addition to Mannington Garage to house boiler room and gas station; completed design and ordering of materials for new Maintenance Building on route 9 at Mannsdown; design work started on installation of air-lift system for Building's Nos. 17 and 24 at Fernwood; study and estimate made on alternates for providing added security for Laboratory Building #18; advertised for bids on construction of new building to house emergency generator; installation work started on fencing six maintenance yards; started reclamation of unused materials at Troy Village property acquisition.

SIGNS AND LIGHT SECTION

Erected new type green directionary signs at Pole Tavern Circle on Route 77 and on Route 206, Trenton to Princeton; all types of signs at Route 10 and Salem Road in Dover, Route 35 at Amboy Avenue in Perth Amboy, Intersection 38 at Harter Avenue, Mount Laurel Road, Nixon Drive and Lenola Road in Moorestown, and on Route 130 at Beverly-Hancocas Road in Beverly, Riverton-Moorestown Road in Riverton, and at the Fairview Avenue Control in Bridgeboro, and Race Track signs on various routes for Freehold and Atlantic City Race Tracks. Removed detour signs on Route 35 at Matawan Creek Bridge and Monmouth Park Race Track signs from various routes. Speakers' stand, chairs and decorations erected for dedication of Burtel Bay Highway on Route 37 at Haven Rock. Erected Service Connection Notices and passed out Notices Prior to Reconstruction in connection with construction project on Route 322, Elmith Street to Weymouth Road, Palmom. Lombard Striping Company completed approximately 75% of work under Contract No. 1 for painting white traffic lines.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 1960

Division: Maintenance & Operations

Bureau: of Plant and Equipment

NEW EQUIPMENT

The following new equipment was received during the month: 9 Devere 24" rotary power mowers; 6 Devere 31" rotary power mowers; 10 International, Model 140, tractors with hydraulic mowers; 5 International, "Lo-Boy" tractors with Danco mowers; 1 Williams, ½-yd. clamshell bucket; 3 Ford, 3/4-ton Utility Body trucks with aerial ladders; 2 Ford Utility Body trucks and 1 Frink, Model CV-15 Off-set "V" snow plow.

SNOW SECTION

The following operations were completed in this section: cut and drilled parts for attaching snow plows to 12 new trucks; stripped eight old trucks for trade-in; repaired and painted 25 push frames, 54 snow plows, 6 semi-circles; repaired and tested 45 lift pumps, 55 lift rams; repaired 35 axle clamps. Fourteen snow plows were picked up from storage areas and returned to Snow Sections. Five radiators were steam cleaned.

GENERAL REPAIR SHOPS

Safety lights, tail-lights and driving lights were repaired and installed on 66 pieces of equipment. The Carburetor and Ignition Shop completed 123 operations. The Mower, Carpenter and Tin Shops completed a total of 57 major and minor operations. The Inspection Section was constantly active with regular and special assignments, including readying new equipment for official inspection. The Machine Shop completed a total of 224 major and minor operations. The following operations were completed by the Equipment Operation Section, 61, Heavy Equipment Shop 18, Diesel Shop 47.

BUILDING MAINTENANCE SECTION

The Building Maintenance Section completed the following operations throughout the State:

Fernwood Service Station,	Bldg. #34	Repaired over head door rear of building.
	Bldg. #35	Repaired lock on small door in front overhead door.
	Bldg. #17	Fabricated and hung 6'x14' screen door on rear overhead door opening.

MONTHLY REPORT August, 1960

Fernwood Service Station,	Bldg. #7	Repaired boiler room door.
	Bldg. #5	Replaced track on overhead door, rear of building, also repaired door.
	Bldg. #21	Installed new lights in office; Fabricated and installed dutch door for stock room; painted dust and chip hopper outside building.
	Bldg. #18	Scraped and painted two outside doors. Repaired vacuum system on heating unit in new wing.
	Bldg. #11	Continued work on conversion of this building.
	Bldg. #1	Cleaned one boiler and controls. Painted fence around transformer located near Bldg. #1.
Avenel Garage		Cleaned septic tank. Installed new septic tank and lateral lines. Painted boiler room and new generator house.
Bridgeport Maintenance Yard		Installed temporary electric line to new building. Installed rough plumbing in new building.
Flemington Garage		Continued work on 30'x40' extension to building.
Hammonton Garage		Painted new boiler room and gas house. Worked on new heating unit.
Metuchen Field Office		Repaired roof and side door.
Lodi Garage		Cleaned, repaired and serviced boiler, burner and controls on heating unit.
Sand Hill Garage		Installed new stall shower, relocated drinking fountain. Installed rubber tile flooring in men's room and locker room.

CLAIMS

A total of $ 1,796.71 was collected during the month on insurance claims.

A total of $ 3,772.72 was collected during the month on Insurance Claims.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 1960

Division: PERSONNEL

Bureau:

SAFETY, PLANT SECURITY AND DISPENSARY

The First Aid Training Program which was mentioned in last month's report was started on Wednesday, August 10, and to the present time 241 employees have received training and will receive certificates from the American Red Cross. I might report that the program has been received with a great deal of enthusiasm by the personnel of the department.

It is expected that when this pilot course is completed within the next few weeks we will have approximately 500 trained First Aiders in the field as the groups being trained at the present time consist of Foremen, Assistant Foremen and Truck Drivers. This has been a joint project of the Recruitment and Training Officer and the Safety Supervisor.

In the Safety Section, it is planned to have roadside safety training and discussions during the next several months. This will include all personnel working on the highways, such as Electrical personnel, Engineering and Construction, Soils and laboring forces.

The equipment training and reevaluation program has not been concluded as yet. It is expected, however, to have the plans completed and the program started in the near future.

Dispensary

The State Department of Health has advised the Safety Office that they are planning to screen State employees sometime in October and has requested our cooperation in this direction and also the use of our facilities for this purpose. This also is in the planning stage and will be concluded before the end of the month.

was awarded on November, August 10, and to the present time 241 employees have received training and will receive certificates from the American Gross. I might report that the program has been received with a great deal of enthusiasm by the personnel of the department.

It is expected that when this pilot course is completed within the next ten weeks we will have approximately 300 trained Plane Riders in the field to the groups being trained at the present time consist of Foremen, Assistant [illegible] and Truck Drivers. This has been a joint project of the Personnel and Training Officer and the Safety Supervisor.

In the Safety Section, it is planned to have roadside safety training conducted during the next several months. This will include all personnel working on the highways, such as Electrical personnel, Engineering and Construction, Patrols and Laboring Forces.

The equipment training and reevaluation program has not been completed as yet. It is expected, however, to have the plans completed and the program started [illegible].

[illegible] table Department of Health has advised the Safety Office that they are planning to screen State employees sometime in October and has requested our cooperation in their direction and also the use of our facilities for these services. This also is in the planning stage and will be concluded before the end of the month.

IN REPLY PLEASE REFER TO

Monthly Report
Division of Planning,
Research, Soils
and Tests.

State of New Jersey

STATE HIGHWAY DEPARTMENT

DWIGHT R. G. PALMER, COMMISSIONER
TRENTON 25

September 2nd,1960

Commissioner Dwight R. G. Palmer:

Herewith are submitted the reports of this Division for the Month of August 1960.

Planning & Traffic
Harry A. Hartmann
Assistant Supervising Engineer

Engineering Research
William VanBreemen
Research Engineer

Soils
Keith Rosser, Jr.,
Assistant District Engineer

Testing Laboratory
J. C. Reed
Supervising Engineer

Howard N. Rigby
Director and Chief Engineer
Division Planning, Research, Soils& Tests

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of **August** 1960

Division: **Planning, Research, Soils and Tests**
Bureau: **Planning and Traffic**

HIGHWAY USE SURVEY SECTION

Field

The regular programmed machine and manual counts were curtailed due to assignment of men and traffic counting machines to the Penn-Jersey Transportation Survey.

Office

Because of the diversion of qualified personnel to prepare schedules, etc., for loadometer and other special surveys, the normal functions of processing and reviewing field counts have been severely curtailed. We are still unable to start work on the 1959 traffic volume map for the same reason.

Special Surveys

Work continues on the Inventory of Urban Planning, the Penn-Jersey Transportation Survey, and the Loadometer Survey.

TRAFFIC DESIGN AND RESEARCH SECTION

During this period, the major work items for this section were the forecasting of traffic volumes for the Section 104(b)(5) Revised Cost Estimates, including the estimating of crossroad volumes; and basic analytical research into traffic signal synchronization. A small amount of time was devoted to a ramp capacity study requested by the Highway Research Board.

HIGHWAY TRAFFIC OPERATIONS SECTION

During this period, the Highway Traffic Operations Section has received, investigated and processed requests for the installation, revamping, retiming and operation of traffic signals; has received and processed miscellaneous traffic investigations; and has checked the timing and operations of signalized intersections.

TRAFFIC SAFETY, CONTROL AND REGULATION SECTION

The assignments under way in this section consisted of radar speed meter surveys for speed zone studies, laying out and processing "no parking" regulations; making traffic investigations and parking studies, preparing and processing other traffic regulations and coordinating departmental review of riparian rights.

HIGHWAY PLANNING SURVEY SECTION

Road Inventory

Field work has been suspended due to lack of personnel. Reassignment of personnel to projects having a higher priority was necessary.

Planning and Traffic

to projects having a higher priority was necessary.

Road Inventory

work continues on the Inventory of Urban Planning, the Farm-to-Market Transportation
, and the Loadometer Survey.

During this period, the major work items for this section were the forecasting
of traffic volumes for the Section 10A(b)(2) Revised Cost Estimates, including the
.

Work continued on the timing and operations of signalized intersections.

and coordinating departmental review of riparian rights.

Field work has been suspended due to lack of personnel.

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MONTHLY DIVISIONAL REPORT Month of August 1960

Division: Planning, Research, Soils and Tests

Bureau: Planning and Traffic

Road Life Studies

Personnel previously working on Road Life have been assigned temporarily to the Interstate Cost Estimate Revision Study. Work on Road Life will be resumed about the first of September.

Mapping

The General Highway Series Base Maps are being revised and urban area maps are being prepared by our drafting personnel.

Auditing and Accounting

Local Road Finance data is being collected for the 1959 Report. Fifty percent of this field work has been completed.

PENN-JERSEY TRANSPORTATION STUDY

Field Work - External Survey (O. & D.)

One party chief, one assistant party chief and eight interviewers are collecting data on the external cordon line.

Three field offices are in operation. Under the supervision of District Chiefs in two offices, home interviews are under way. The District Chief in the third office is supervising the Truck and Taxi Survey. This survey is based on the samples selected from the files of the Division of Motor Vehicles.

Committee Meetings

August 15, 1960, Technical Committee, attended by Mr. Berberich and Mr. Severns.

August 16, 1960, Policy Committee, attended by Mr. Hartmann and Mr. Berberich.

LOADOMETER

The Loadometer Tables for 1959 have been typed and prints are being made for submittal to the Bureau of Public Roads.

The field work for the 1960 Loadometer Study is about 95% complete. Three temporary clerks have begun to code the data turned in by the field parties.

TITLE 23, SECTION 104(b)(5) INTERSTATE COST ESTIMATES

Preparation of the final report in preliminary form was completed August 9, 1960. Five copies of this preliminary report were forwarded to the Bureau of Public Roads with a complete set of reproduced I.B.M. cards and listings, and three sets of strip maps. The Research Section of the Bureau of Planning and Traffic is now analyzing the crossroad traffic and this assignment is now ten percent complete.

Diamonds, Hearts, Spots and Tests

Bus Life in Utah

Accurate Cost Estimate Novation Study. Work on Road Life will be resumed about the first of September.

Prepared by our drafting personnel.

Completed and Pending

Field work has been completed.

Field Work - Internal Survey (0, 3 D.)

One party chief, one assistant party chief and eight interviewers are collecting data on the external origin.

Two field offices are in operation. Both the assembling of Punched Cards in two offices, home interviews are under way. The District Office in the third office is supervising the Truck and Fuel Survey. This survey is based on the samples selected from the files of the Division of Motor Vehicles.

Committee Meeting

August 15, 1960, Policy Committee, attended by Mr. Hartman and Mr. Herbertson.

VACANCIES

The Loadometer Tables for 1959 have been typed and prints are being made for submittal to the Bureau of Public Roads.

The field work for the 1960 Home-Interview Study is about 3/4 complete. Three temporary clerks have begun to code the data turned in by the field workers.

Final Editing Station Location Information

Preparation of the final report is proceeding. Two completed chapters, Life Styles of this preliminary report were forwarded to the Bureau of Public Roads at the beginning of the month. The Bureau of Traffic and Planning, and Bureau of Public Roads personnel met with the participants in the two preliminary reports.

MONTHLY DIVISIONAL REPORT Month of **August** 19 60

Division: **Planning, Research, Soils and Tests**
Bureau: **Planning and Traffic**

Arrangements have been made with the Printing Section of the State Treasury Department for the reproduction of the final report. This printing section will print, collate and bind the report and the Bureau of Planning and Traffic will make the distribution. It is expected that this final work will be completed by the second week in September. All completed original report data was sent to commercial photographers for negatives. Negative and back and front covers were delivered to the Printing Section of the Treasury Department by August 25, 1960.

ADDITIONAL STUDIES

Northeastern New Jersey Transportation Study

On August 17, 1960, Mr. Hartmann and Mr. Berberich met with the Union County Board of Freeholders, at Elizabeth, for the purpose of outlining the basic proposals of the Northeastern New Jersey Transportation Study and to ask for their cooperation. It appeared that favorable response to the conduct of the Study would be forthcoming in the very near future.

Work on the development of a general outline of study is now under way and is expected to be completed about the middle of September.

Newark Area Study

Work is progressing on schedule. All field work on roadside interviewing, parking studies and mass transit, including railroads, has been completed. Collection of all traffic volume data has been completed in the field and a flow map of the major thoroughfares in the City of Newark, showing directional traffic volumes, has been completed.

Division: Planning and Traffic

All completed original report data was sent to commercial photographers for negative and back and front covers were delivered to the printing section of the Treasury Department by August 25, 1960.

Northeastern New Jersey Transportation Study

On August 17, 1960, Mr. Hartmann and Mr. Berberich met with the Union County Board of Freeholders, at Elizabeth, for the purpose of outlining the basic proposals of the Northeastern New Jersey Transportation Study and to ask for their cooperation. It is very near future.

expected to be completed about the middle of September.

[illegible] traffic volume data has been completed in the field and a flow map of the major [illegible] thoroughfares in the City of Newark, showing directional traffic volumes, has been [illegible].

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 1960

Division: Planning, Research, Soils & Tests

Bureau: Engineering Research

PAVEMENTS

Prepared design details and specifications for proposed full-width construction of concrete pavement on Route 202, Section 8A. (In substitution for our normal lane-at-a-time construction.)

At Mr. Fritzsche's request, prepared statement setting forth (a) our pavement-design procedures, and (b) the factors which determine the selection of pavement type, for AASHO committee.

Took rut-depth measurements on bituminous pavement on Route 73, between Route 130 and Palmyra Bridge, constructed with a 6-inch bituminous-stabilized gravel base. These measurements showed that an appreciable increase in rut depth had occurred since the previous measurements on last February 18th.

Took joint-faulting measurements on concrete pavement on Route 130, between Cranbury Traffic Circle and Dayton, constructed in 1948. No measurable faulting has occurred thus far.

Inspected sand-asphalt resurfacing on Pulaski Skyway, applied in October 1956. On an over-all basis, this resurfacing is still in very good condition. Such few defects as exist are of little or no practical consequence. No evidence of salt attack was observed.

Inspected and photographed concrete resurfacing on elevated structure between the east end of the Pulaski Skyway and Tonnelle Ave., Jersey City. This resurfacing, applied in 1945, now has a number of deteriorated areas, of limited extent, which are apparently the result of salt applications.

Made limited inspection of concrete pavement on Route 130, Yardville Bypass, constructed in 1951. This was an experimental project involving two basic types of curing, namely, (a) colorless membrane, and (b) waterproof paper. In some areas, calcium chloride was incorporated in the concrete. This admixture has apparently been more detrimental than beneficial, as exhibited by considerable map-cracking.

Took gauge-plug measurements at cracks in bituminous pavement on Palisades Interstate Parkway. Also took gauge-plug measurements at experimental joints on Route 130, Yardville to Robbinsville. These are continuing studies.

Inspected a pavement on Palmyra Ave., in vicinity of junction of Routes 73 and 130, constructed in 1959, and consisting of a 2-inch FA-BC surface on a 6-inch soil-cement base. This pavement was in excellent condition, and no reflection cracks were observed.

Inspected load-transfer devices for Route FAI 295, Section 1D.

Conferred with representatives of Aluminum Company of America regarding possibilities of aluminum load-transfer devices.

Inspected plain concrete pavement constructed recently on Haddon Ave., Collingswood, and involving a 320-foot experimental section in which the transverse contraction joints were installed on a skew (3 ft. in 12 ft.), instead of at right angles. No structural defects were observed in this section. With the possible exception of a slight reduction in the amount of noise as the tires passed over the joints, this type of construction produced no apparent improvement in riding qualities. However, if the overall finish of the pavement had been better, a difference might have been apparent.

Arranged for tests to determine potentialities of "Homosote", for use as joint filler. This material does not appear to be as satisfactory as the bituminized fiber type of filler we currently specify.

BRIDGES

Took measurements on the following bridges, (a) Cheesequake Creek, Route 35, (b) Somers Point, Route 52, (c) Passaic River, Route 3, (d) Manasquan River, Route 78, (e) Beach Thorofare, Route 30, and (f) Inland Waterway, Lovelandtown. Also took measurements at five new bridges on FAI 78. These are continuing studies.

Installed additional measuring points in the following bridges, (a) Victory, Perth Amboy, and (b) Rancocas Creek, Route 130.

In conjunction with the wedging-apart of the drawspan of the bridge over Inland Waterway, Route 88, to create additional expansion space, took before-and-after measurements, and reported on the effects of this work. Also installed new reference monument, to replace one destroyed.

At request of Maintenance Division, installed measuring points in two new bridges on Route FAI 78, vicinity of Bloomsbury.

Accompanied by L. C. Petersen, inspected new bridge on Route FAI 78, over Pohatcong Creek, where there is appreciable deterioration and cracking of the concrete, at the tops of the piers.

Participated in tests to determine effectiveness of epoxy resin, in connection with plates to be applied to Hackensack River Bridge, Route 3.

possibilities of aluminum load-transfer devices.

Inspected plain concrete pavement constructed recently on Hadlon Ave., instead of at right angles. No structural defects were observed in this section. With the possible exception of a slight reduction in the amount of noise as the tires passed over the joints, this type of construction all things of the pavement had been better, a difference might have been

aluminized fiber type of filler we currently specify.

35, (b) Somers Point, Route 52, (c) Passaic River, Route 3, (d) Manasquan Loveladtown. Also took measurements at five new bridges on PAI 78. These are continuing studies.

Installed additional measuring points in the following bridges, (a) Victory, Perth Amboy, and (b) Rancocas Creek, Route 130.

In conjunction with the wedging-apart of the drawspan of the bridge over Inland Waterway, Route 88, to create additional expansion space, took before- and-after measurements, and reported on the effects of this work. Also installed new reference monument, to replace one destroyed.

bridges on Route PAI 78, vicinity of Bloomsbury.

the concrete, at the tops of the piers.

with plates to be applied to Hackensack River Bridge, Route 3.

MISCELLANEOUS

Investigated reported dangerous condition at curve on Route 9W, Coytesville. Submitted report and recommendations for correction.

Conducted representatives of Bureau of Public Roads on inspection of pavements and bridges in North Jersey area.

Submitted report and recommendations in connection with proposal made by Aero Service Company.

Participated in conferences on reorganization of Department.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 1960

Division: Planning, Research, Soils and Tests

Bureau: Soils and Subdrainage

Construction

The removal of Zone 2 material that does not comply with the gradation requirements of the specifications continues in the Big Timber Creek area on Route 295, Section 1C. On July 23, 1960, the ladder of the dredge "Queen" was extended thereby enabling the dredge to excavate to a depth of minus 40' at low tide. Samples of the material being removed are being obtained from the disposal site. All of these samples indicate that the material is unacceptable. On August 17, the dredge "Count" commenced the refilling of that portion of the wet excavated area from which all rejected material had been removed. The refill material is being obtained hydraulically from an upland borrow pit adjacent to Big Timber Creek and to date has been very satisfactory. By refilling without delay it is hoped to minimize the accumulations of liquefied silt due to tidal action and slope sloughage.

The test section of crushed bankrun gravel (crushed in place by travelling crushing plant) on Route 129, Section 1A, has been completed by the Contractor and is in the process of being evaluated as a possible substitute for Quarry Processed Stone Subbase. This evaluation is of import since it is the first effort on the part of a Contractor to provide crushed gravel as a substitute for crushed stone as a subbase. Indications to date are that the Contractor's efforts in this instance have not been successful due to the inadequacy of the light mobile crushing plant to crush a sufficient number of articles on the grade.

The Soils Bureau has recommended the removal of the overload on Route 21, Section 1C. The settlement readings, obtained weekly, indicate that the primary consolidation has been accomplished and is now safe to commence paving operations in the vicinity of the Third River.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Planning, Research, Soils & Tests

Bureau: Testing and Materials

NEW MATERIALS

A two-component Epoxy Resin Compound produced by Magna Bond Products, Inc., was tested for its effectiveness as an anti-slip protection applied to concrete stairway treads when mineral granules were applied to the epoxy. Carborundum Grits #30 and coarse sand #20 Mesh were applied to a thin coating of the epoxy. The Carborundum Grits appear to be the better material for the purpose. Samples of "Celotex" Bituminized Joint Material supplied by the Thompson Materials Corporation are being tested in connection with preformed paper board (not bituminized) manufactured by the Homasote Co. Ledge Rock samples were submitted for classification and wear tests from Bucks County Crushed Stone Co., Bethlehem Steel Co., New York Trap Rock Corp., and Bradford Hills Quarry.

MATERIALS' DEVELOPMENT

Marshall tests were conducted on materials for several projects. Several mixtures of Asphaltic Oil Grade RC-2 and Bituminous Sand were prepared to determine their use as a leveling and cushion base for metal plates in the wheel tracks on Rt. 37, Hackensack River Bridge. It was decided that this type was not suitable for the use intended. Further investigation is being carried on in reference to classification and quality of New Jersey approved dolomite producers. Laboratory Geologist visited one gravel plant in connection with Laboratory Investigation 1960-3 on weathering phenomena of New Jersey gravels. Five quality control samples were received and tested.

PERFORMANCE TESTING AND INSPECTION

The second monthly evaluation of Experimental Traffic Paint Test Lines was made on Route U.S. 130, east of Robbinsville. Accelerated weathering tests are in progress in the Atlas Twin Arc Weather-Ometer on Metal Paints, Paint Primers, Cromit, etc. Two samples of cement were received from the National Bureau of Standards in the current cooperative test program. Laboratory personnel made trip to Dover, Delaware to inspect the operation of traffic paint heating equipment now in use by that state and to observe their methods for stripping paint from metal signs. Inspections made on four projects prior to release of Maintenance Bonds. Two stone producers were informed that their material did not comply with specification classification; gravel from two producers did not comply with quality requirements. A field office for the Northern District was set up at Paterson.

PERSONNEL

Seven Assistant Engineers, Highway (Trainees) were given the instructional course in both the Laboratory and field. To the Non-Bituminous Field Inspection Section, one Highway Inspector was assigned and one Clerk Typist was temporarily assigned.

MEETINGS

Conference with Bureau of Public Roads and Department officials regarding approval of specifications for cutting cores from bituminous pavements; also with producer in reference to adopting specification for Aluminum Corrugated Metal Pipe.

SAMPLES RECEIVED

During this month, 3458 samples were received for test as compared with 3251 samples for the same 1959 period. This represents an increase of 6.36%.

JCR/AM 9-1-60.

Planning, Research, Soils & Tests

Testing and Materials

A two-component Epoxy Resin Compound produced by Magna Bond Products, Inc., was tested for its effectiveness as an anti-slip protection applied to concrete.

Onondowundun Grits #30 and coarse sand #80 mesh were applied to a thin coating of the epoxy. The Onondowundun Grits appear to be the better material for the purpose. Samples of "Delotex" Bituminized Joint Material supplied by the Thompson Materials Corporation are being tested in connection with preformed expansion joints. Samples were submitted for classification and wear tests from Bucks County Crushed Stone Co., Bethlehem Steel Co., New York Trap Rock Corp., and Bradford Co.

Marshall tests were conducted on materials for several projects. Several mixtures of Jamaica Oil Sand were submitted by the Jamaica Oil Co. Laboratory determine their use as a leveling and cushion base for metal plates in the wheel tracks on Rt. 27, Hackensack River Bridge. It was decided that this type was not suitable for the use intended. Further investigation is being carried on in reference to Bituminization and Stability of the Grand Canyon Sand with Portland Cement to produce. Laboratory Geologist visited one gravel plant in connection with Laboratory Investigation I950-3 on weathering phenomena of New Jersey gravels. Five quality control samples were received and tested.

PERFORMANCE TESTING AND INSPECTION

On Route U.S. I30, east of Robbinsville. Accelerated weathering tests are in progress in the Atlas Twin Arc Weather-Ometer, Model XWR, Fadeometer, Cromit, etc. Two samples of cement were received from the National Bureau of Standards for testing. Inspection trip to Dover, Delaware to inspect the operation of traffic paint testing equipment now in use by that state and to observe their methods for stripping paint from metal signs. Inspections made on four projects prior to release of Maintenance Bonds. Two stone producers were informed that their material did not comply with specification classification; gravel from two producers did not comply with quality requirements. A field office for the Northern District was set up at Paterson.

PERSONNEL

Two Assistant Engineers, Highway (Vacant) were given the indoctrinal course in both the Laboratory and field. To the Non-Bituminous Field Inspection Section, one Highway Inspector was assigned and one Clerk Typist resigned.

CONFERENCES

Conference with Bureau of Public Roads and Department officials regarding approval of specifications for cutting cores from bituminous pavements; also with producer in reference to adopting specification for Aluminum Corrugated Metal Pipe.

SAMPLES RECEIVED

Testing this month, 1401 samples were received for a total of 1971 tests. This represents an increase of 6.8%.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Planning, Research, Soils & Tests

Bureau: Testing and Materials

NEW MATERIALS

A two-component Epoxy Resin Compound produced by Magna Bond Products, Inc., was tested for its effectiveness as an anti-slip protection applied to concrete stairway treads when mineral granules were applied to the epoxy. Carborundum Grits #30 and coarse sand #20 Mesh were applied to a thin coating of the epoxy. The Carborundum Grits appear to be the better material for the purpose. Samples of "Celotex" Bituminized Joint Material supplied by the Thompson Materials Corporation are being tested in connection with preformed paper board (not bituminized) manufactured by the Homasote Co. Ledge Rock samples were submitted for classification and wear tests from Bucks County Crushed Stone Co., Bethlehem Steel Co., New York Trap Rock Corp., and Bradford Hills Quarry.

MATERIALS' DEVELOPMENT

Marshall tests were conducted on materials for several projects. Several mixtures of Asphaltic Oil Grade RC-2 and Bituminous Sand were prepared to determine their use as a leveling and cushion base for metal plates in the wheel tracks on Rt. 37, Hackensack River Bridge. It was decided that this type was not suitable for the use intended. Further investigation is being carried on in reference to classification and quality of New Jersey approved dolomite producers. Laboratory Geologist visited one gravel plant in connection with Laboratory Investigation 1960-3 on weathering phenomena of New Jersey gravels. Five quality control samples were received and tested.

PERFORMANCE TESTING AND INSPECTION

The second monthly evaluation of Experimental Traffic Paint Test Lines was made on Route U.S. 130, east of Robbinsville. Accelerated weathering tests are in progress in the Atlas Twin Arc Weather-Ometer on Metal Paints, Paint Primers, Cromit, etc. Two samples of cement were received from the National Bureau of Standards in the current cooperative test program. Laboratory personnel made trip to Dover, Delaware to inspect the operation of traffic paint heating equipment now in use by that state and to observe their methods for stripping paint from metal signs. Inspections made on four projects prior to release of Maintenance Bonds. Two stone producers were informed that their material did not comply with specification classification; gravel from two producers did not comply with quality requirements. A field office for the Northern District was set up at Paterson.

PERSONNEL

Seven Assistant Engineers, Highway (Trainees) were given the instructional course in both the Laboratory and field. To the Non-Bituminous Field Inspection Section, one Highway Inspector was assigned and one Clerk Typist was temporarily assigned.

MEETINGS

Conference with Bureau of Public Roads and Department officials regarding approval of specifications for cutting cores from bituminous pavements; also with producer in reference to adopting specification for Aluminum Corrugated Metal Pipe.

SAMPLES RECEIVED

During this month, 3458 samples were received for test as compared with 3251 samples for the same 1959 period. This represents an increase of 6.36%.

JCR/AM 9-1-60.

Division Planning, Research, Soils & Tests

Section Testing and Materials

was tested for its effectiveness as an anti-slip, protection application to sub-
[illegible] Two bituminous [illegible] were applied to a thin coat-
ing of the epoxy. The emulsion binder appears to be the better material for
this purpose. Samples of "Galoseal" bituminized joint material supplied by the
[illegible] were submitted for classification and wear tests from Nevada County
[illegible] Co., Reliance Steel Co., New York Trap Rock Corp., and Brighton
Mills Quarry.

[illegible]

Several tests were conducted on materials for several projects. Several sieve
sizes of Asphaltic Oil Grade 5-6 and mixtures were prepared to recommend
[illegible] and gradations for metal plates in the wheel
tracks on Rt. 17, Cuyahoga River Bridge. It was decided that this type was
not suitable for the use intended. Further investigation is being carried on
in reference to classification and quality of new Jersey approved colorite pro-
ducers. Laboratory could not visit one gravel plant in connection with
[illegible] quality control samples were received and tested.

[illegible]

[illegible] evaluation of Experimental Traffic paint Test Lines was made
[illegible], etc. Two samples of cement were received from the National Bureau of
[illegible] in the current cooperative test program. Laboratory personnel made
trip to Dover, Delaware to inspect the operation of traffic paint heating
equipment now in use by that state and to observe their methods for striping
paint from metal slugs. Inspections were made on four projects prior to release
of maintenance bonds. Five stone producers were informed that their material
did not comply with quality requirements. A field office for the Northern
district was set up at Ashtabula.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: RIGHT OF WAY ACQUISITION & TITLES

Bureau: Appraisals & Negotiations

The Division of Roads transmitted agreement forms covering 247 parcels, of which 49 were revisions.

GENERAL PROPERTY PARCEL MAPS

10 General Property Parcel Maps were approved and negotiations authorized.

APPRAISALS, NEGOTIATIONS, CONDEMNATIONS, ETC.

A total of 127 items were presented to the Commissioner for action, including:

80 Agreements
16 Condemnations
7 Awards
6 Appeals
1 Sale of "X" Parcel approved
2 Deeds of Conveyance
7 Buildings sold at public auction
2 Bids for buildings rejected
2 Demolition contracts awarded
1 Accept title subject to easement
1 Application for Riparian Grant
1 Transfer $17,000. from Route 37, Section 1 & 2 to Route 35, Section 2
1 Authority to sell "X" Parcel at public auction

APPRAISAL ORDERS APPROVED

64 Appraisal Orders were approved with outside fee appraisers for a total of $33,350.

John A. Whitehead

John A. Whitehead

MB:pb

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August, 19 60

Division: Right of Way Acquisitions & Titles
Bureau: Legal

I. STATISTICAL

Papers drawn in August

Condemnation

Complaints - 14
Orders to Show Cause - 14
Orders of Continuance - 14
Orders for Judgment and Appointing Commissioners - 5
Order Substituting Commissioner - 1
Order Allowing Plaintiff to File Amendment
To Complaint - 1
Amendment to Complaint - 1
Orders Granting Compensation to Commissioners - 9
Orders Extending Time for Filing Report of
Commissioners - 18
Orders of Dismissal - 8
Notices of Appeal - 10
Order on Appeal - 1
Order Discontinuing Appeal - 1

Number of Deeds Approved - 90
Number of Titles Approved - 122

Court Appearances - 41

II. GENERAL ACTIVITIES

Court appearances appointment of condemnation commissioners; various motions; hearings before condemnation commissioners; trials; preparation for court appearances; preparing legal briefs and memoranda; conferences in re same; conferences with various Deputy Attorneys General.

III. INTERDEPARTMENTAL SERVICES

Conferences with department heads with reference to various problems; opinion memoranda for Commissioner Palmer, department heads and employees; approving, disapproving and re-writing various legal papers and documents; recommendations for condemnation or settlement; trial preparation; brief writing and similar services.

Papers drawn in August:

Complaints - 14
Notice to Show Cause - 14
Notice of Jurisdiction - 14
Orders for Judgment and Appointing Commissioners - 5
Order Substituting Defendant - 1

To Complaint - 1
Summons to Complaint - 1
Orders Granting Time for Motion to Commissioners - 9
Orders Extending Time for Filing Report of
Commissioners - 13
Papers of Dismissed - 8
Notices of Appeal - 10
Bonds on Appeal - 1

Number of Deeds Approved - 30
Number of Ties Approved - 122

IV. MISCELLANEOUS

Attending bidding; seeing that all necessary papers are prepared; dictating all court matters; numerous other matters which arise during the course of the month.

WJM/mmd

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Right of Way Acquisition & Titles
Bureau: Title

TITLE SEARCHING

96 searches and 130 continuation searches were completed throughout the State.

TITLE EXAMINING

78 title searches were examined and Reports of Title prepared.

LEGAL INSTRUMENTS

94 Legal Instruments were prepared and forwarded to the owners or their attorneys for execution.

CERTIFICATE OF TITLE

122 Certificates of Title were prepared and submitted to the Department of Law for approval.

SETTLEMENTS

90 final settlements were made with property owners.

CONDEMNATIONS

15 Title Memorandums were prepared and forwarded to the Department of Law. 164 condemnation notices were served.

TITLE COMPANIES

19 deeds were delivered through the offices of title companies.

21 checks were delivered to title companies with instructions for settlement with the owners.

Edward H. Drake
Title Officer

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Roads, Design & Construction
Bureau: Federal Aid Secondary Administration

PLANS

Checking plans for the following projects:

Palisades Avenue Bridge, Hudson County, S124(2)
Arena Drive, Mercer County, S130(6)
Haddon Avenue, Camden County, S132(4)
Columbia Turnpike, Morris County, S187(4)

PREPARING SPECIFICATIONS

Palisades Avenue Bridge, Hudson County, S124(2)
Arena Drive, Mercer County, S130(6)
Haddon Avenue, Camden County, S132(4)
Columbia Turnpike, Morris County, S187(4)

PROJECTS ADVERTISED

None

BIDS RECEIVED

None

CONTRACTS AWARDED

Mt. Holly-Burlington Road, Burlington County, S218(2)

PROJECTS ACCEPTED AS COMPLETE

Haddon Avenue, Camden County, S132(3)
Meadow Avenue, Ocean County, S178(2)

MISCELLANEOUS

Reviewing plans for proposed construction as requested by various Counties, checking As Built Plans for Final Payments, preparing Final Estimates, etc., on completed projects. Also preparing Final Vouchers on completed projects, making Final Inspections, etc.. Received Final Payment from Federal Government on F. A. S. Projects.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of AUGUST 1960

Division: Roads, Design & Construction
Bureau: Location & Design

FEDERAL AID

Programming of I-287-1(16) Rt. 287 from and including Whitman Ave. to New Durham Rd. (Util); I-287-1(17) Rt. 287 from and including Rt. US 1 to Whitman Ave. (Util); I-95-7(9) Rt. 95 Teaneck Cr. E. to Rt. 4 (constr.); I-78-2(22) Rt. 78 Central R.R. East to Mulhockaway Cr. (constr.).

OFFICE ENGINEER

Processing plans and specifications for Rt. 10, Sections 4B & 5A, Livingston Circle to Teed Road, widening, resurfacing and bridge; Route 17, Sections 3A & 5A, Ridgewood Avenue Interchange; Route 22, Section 10A, Mountain Avenue Overpass; Route 22, Section 13B, Meisal Avenue to Michigan Avenue; Route 22, Section 14B, Liberty Avenue Viaduct; Route 28, Sections 3A & 4A, East Street to Lincoln Avenue, widening and resurfacing; Route 35, Section 2A, Brick Twp. to Seaside Heights, dualization; Route 80 Section 5G, Hackensack River Bridge Substructure; Route 95, Section 1G, Route 4 to Fletcher Avenue; Route 130, Sections 7B & 10B, Airport Circle to Salem Road, barrier curb, jug handles resurfacing, bridges.

INTERSTATE

I-80-1 Studies continuing and 61% complete; I-80-2L Plan revision 100% complete, ready for advertising; I-80-3 design planning underway, further study of I-287 Interchange underway; I-80-4 design planning on Route 23 Interchange underway, entire section 89% complete; I-80-5 design planning 88% complete, two more contracts completed and under processing by Office Engineer; I-95-1 further plans completed and in Trenton for processing; I-78-5 Springfield to Berkeley Heights. Proceeding with design and R/W maps. Entire section to be processed for R/W acquisition I-287 Parsippany to Montville. Plans 77% complete. Working on plans for early completion of same for 1960-61 Program.

MISCELLANEOUS

Route 17, Section 3A & 5A, Ridgewood Avenue Overpass - 100% complete. Office Engineer processing for early advertising; Route 15 Wharton to Sparta - Photogrammetry 100% complete. Study of alignment underway; Route 23 Vicinity of N.Y. State line and Montague Twp - Alignment established, contract plans for improvement 25% complete.

Roads, Design & Construction

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Design & Construction

Bureau: Road Construction

ROUTE	SECTION	LOCATION	PERCENTAGE COMPLETED Aug. 1st.	Sept. 1st.60
U.S. 1	6-A	Route U.S. 130 to College Farm Road	42%	62%
1 & 9	1 & 2	Ramp Revisions, Grading, Paving & Bridges, Newark	75%	87%
1 & 9	6A & 7A	Tonnele Ave. Traffic Circle to Fairview Avenue	46%	48%
1 & 9	8-A	From Wilt Avenue to DeGroot Avenue, Drainage	5%	40%
1	8A &)			
9	4A & 25A)	Intersection Revision at Ernston Rd. & Conn. to Rt. 34	89%	95%
4	3-A	Lafayette Avenue to 1000' South of Kenwood St. Barrier Curb	38%	66%
U.S. 9	2	Cape May Canal Bridge and Approaches	96%	98%
9	25-B	Improvements at Grove Avenue	19%	80%
10	3-A	Newark & Mt. Pleasant Turnpike to Route 53	70%	82%
10	4-A	Livingston Traffic Circle to Whippany Troy Hills Road	70%	76%
12	1-A	Baptistown Pavement Reconstruction	51%	57%
15	1	Burnt Meadow Brook, Grading & Paving Br. Approaches	90%	97%
17	3	Underpass at Century Road	92%	97%
18	2	Clifton Avenue to New Jersey Turnpike	84%	86%
18	5	From 800' E. Spring Valley Road to Route U.S. 9	70%	84%
20	4-A	South Drive to Broadway, Paving & Bridges	15%	28%
21	1-B	Roosevelt Avenue to Highfield Lane	96%	96%
21	1-C	From Highfield Lane to So. Parkway, Grading, Paving & Br.	47%	54%
U.S. 22	1-A	Intersection Revision at Roseberry St. Phillipsburg	21%	30%
22	13A & 11A	Pedestrian Overpasses	71%	77%
28	1A & 7A	Colidge Place to Bridge St. R.R. Bridge Reconstruction	4%	8%
29	15-A)	Wilburtha Road to Scudders Falls		
129	1-A)	Delaware River Bridge to Scotch Road	58%	81%
30	14-A	From Eleventh St. to Kaighn Ave. Overpass & Resurfacing	49%	93%
35	6A & 4A	From 1500' So. of Eatontown Traffic Circle, Widening	12%	19%
35	12-B	From Smith St. to New Jersey Turnpike, Widening & Resurf.	53%	75%
38	1A & 2A	From Church Road to Marter Avenue, Dualization	80%	88%
69	5-A	From Back Brook to Rocktown, Pavement Widening & Resurf.	1.0%	7%
73	2-A	So. Branch Pennsauken Creek to Route 38	38%	46%
U.S. 78	2-E	Central R.R. of N. J. to Mulhockaway Creek	95%	96%
80	2-E	Route U.S. 46 to Landing Rd. Bridge & Incidental Paving	69%	73%
80	2-H	Landing Road Interchange to Howard Blvd., Grading & Paving	17%	24%
80	4-A	Bridge over Relocated Route 20	83%	93%
80-S	1 &)	U.S. 130 to Browning Road & Route 80-S Interchange to		
295	2-G)	Copley Road	83%	76% *
82	1-A	L.V.R.R. Bridge & Pavement Reconstruction	31%	38%
95	1-D	Overpass Bridges at Broad Avenue and Grand Avenue Etc.	0.09%	2%
130	7A & 8B	From Interchange at Route 73 Township of Pennsauken	12%	30%
130	8A & 9A	From Coopertown Road to Cinnaminson Avenue	78%	85%
169	1	Constable Hook to Point Breeze	60%	65%
202	8-A	Dualization So. Br. Raritan River to Beechwood Drive	0.5%	7%
208	2-A Etc.	Interchanges Borough of Franklin Lakes	42%	54%
208	3-A	Maple Avenue to Goffle Road, Pedestrian Overpass	78%	88%
287	1-B	Interchange to Viaduct at Lehigh Valley Railroad	43%	54%
287	1C & 2B	Weston Canal Road to River Road Interchange	66%	71%
295	1-C	Browning Lane to Broadway, Grading, Paving & Bridges	70%	70%
295	1-D	Rt. 47 to Rt. U.S. 130, Grading, Paving and Bridges	48%	69%
322	1	Weymouth Road to Route 50, Dualization	91%	94%
		N. J. State Teachers College at Union, Contract #2	94%	94%

* Drop in percentage due to Change Order #16

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: Design & Construction

Bureau: Road Construction

CONTRACT AWARDED IN JULY

Route 440, Section 2-A, from Clendenny Avenue to Danforth Avenue in Jersey City. Awarded to New Jersey Asphalt & Paving Company on July 28, 1960.

CONTRACTS AWARDED IN AUGUST

Route 78, Section 2H & Route 80, Section 2K - Installation of Delineators. Awarded to Whitmyer Bros., Inc. on August 3, 1960.

Route 23, Sections 1A & 2A, from Claremont Avenue to Route U.S. 46, Resurfacing and Pavement Widening. Awarded to Union Building & Construction Corporation on August 4, 1960.

Route 80, Section 2-J, Grading, Paving Eastbound Roadway and Bridges. Awarded to Franklin Contracting Company on August 13, 1960.

Route 202, Section 7A, 2A & 4A - Planting. Awarded to Clayton Landscape Service on August 15, 1960.

Route 40, Section 2-A - from County Road 540 to Route 48, Dualization and Bridge. Awarded to Gaskill Construction Company on August 19, 1960.

CONTRACTS ACCEPTED IN AUGUST

Route 322, Section 1, from Weymouth Road to Route 50. Accepted August 2, 1960. (Bridge work only)

Route 71, Section 1, Bridges & Approaches at Poplar Brook, Etc. Accepted August 3, 1960 (Bridge work only)

Route 71, Section 2, Drainage Improvement, City of Asbury Park. Accepted August 3, 1960. (Bridge work only)

Route 1, Section 1, from Lake Drive to New Jersey Motor Vehicle Inspection Station. Accepted August 3, 1960. (Bridge work only)

Route 17, Section 1 - Resurfacing from Belleville Turnpike to Rutherford Avenue. Accepted August 9, 1960.

GENERAL NOTES

As of September 1, 1960, there were 53 projects underway, valued at $83,645,000. and being inspected by 188 men.

E. Y. Corson

E. Y. Corson
Supervising Engineer, Bureau of Road Construction

Dealing & Construction
Road Construction

CONTRACT AWARDED TO ____

____, from Glenmary Avenue to Jackson Avenue in Quarry ____
for Quarry Asphalt & Paving Company on July 28, 1960.

____, from Diamond Avenue to Route 6, Ho. 4, Quarry - Construction
____ to Union Building & Construction Corporation on
____.

____, Section 2, Paving, Irving Washburn Roadway and Bridges. Contract
____ Construction Company on August 17, 1960.

____ - Completed.

____ from Maynard Road to Route 30. Accepted August 2, 1960.

____

____ Route 15, Section 1, Paving Improvements Only on Main ____
August 3, 1960. (Bridge work only)

____, from Lane Drive to New Quarry Motor Vehicle Inspection
____ Accepted August 3, 1960. (Bridge work only)

____ - Contract ____ August 7, 1960.

NOTICE

____

____
____

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of August 19 60

Division: State Aid
Bureau:

GENERAL

Unfavorable weather has slowed up progress on State Aid projects.

COUNTIES

Most of the essential maintenance work has been completed. Counties are now putting their efforts on extraordinary repairs and improvements projects. 29 items requiring office processing were received; processing was completed on 40 items.

MUNICIPALITIES

Most State Aid maintenance programs have been completed. Road work in resort areas that could not be completed before the summer season started will get under way after Labor Day. Allocation of 1960 Herrick Act Funds are still to be approved. 325 items requiring office processing were received; processing was completed on 324 items.

PERSONNEL

Inspectors in most cases are assigned to 2 or more working projects. Of 72 inspectors available for assignment 8 are assigned and working on Federal Aid Secondary Projects.

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